

What is Claimed is:

1 1. A folding knife light, comprising:
2 a tool;
3 a housing encasing said tool while said tool is in an inoperative position and providing a
4 handle while said tool is in a deployed position;
5 an illuminating component mounted on said housing to illuminate said tool while said tool
6 is in said deployed position;
7 a mode switch component; and
8 a blade switch component cooperating with said mode switch component, said housing
9 component, and said illuminating component to operate said illuminating component.

1 2. The folding knife light of claim 1, with said housing component comprises said handle
2 accommodating a mode switch component, at least one blade-switch component and at least one
3 illuminating component.

1 3. The folding knife light of claim 2, with said housing component comprising at least
2 one storage volume.

1 4. The folding knife light of claim 2, with said housing component comprises at least one
2 scale and at least one axle providing a pivot of rotation enabling rotation of said tool about said

3 pivot as said tool moves between said inoperative position and said deployed position.

1 5. The folding knife light of claim 2, with said housing component comprising at least one
2 port for accommodating removable storage of any of a variety of tool items selected from among
3 a group comprised of forks, spoons, razors, picks, scissors, flints, and a threaded fastener driver.

1 6. The folding knife light of claim 1, comprised of at least one extra tool removable stored
2 within said housing.

1 7. The folding knife light of claim 1, wherein said illuminating component comprises at
2 least one light emitting diode, at least one lens, and at least one reflector.

1 8. The folding knife light of claim 1, wherein said illuminating component comprises at
2 least one light bulb.

1 9. The folding knife light of claim 1, wherein said illuminating component comprises a
2 pair of light bulbs, one on each side of a blade when said blade is unfolded from said housing
3 component.

1 10. The folding knife light of claim 1, wherein said blade switch component comprises a
2 first electrical switch contained in said handle and activated by movement of said tool between

3 said inoperative position and said deployed position.

1 11. The folding knife light of claim 10, with said mode switch comprised of three modes:
2 an off mode wherein no electrical power is supplied to the first electrical switch wherein
3 said illuminating component remains unlit;
4 an on mode wherein said illuminating component operates independently of said position;
5 and
6 an on-by-blade mode wherein electrical power is supplied to said first electrical switch and
7 said illuminating component operates when said blade is in an open position.

1 12. The folding knife light of claim 10, with said mode switch comprising a single pole,
2 double throw, center off switch.

1 13. The folding knife light of claim 10, comprised of said first electrical switch being
2 switched on by a heel of said tool when said tool moves to said deployed position and when said
3 mode switch is in an on-by-blade position.

1 14. The folding knife light of claim 10, comprised of said first electrical switch disposed
2 to accommodate manual operation by a thumb of a user when said tool is in said inoperative
3 position.

1 15. The folding knife light of claim 10, comprised of said first electrical switch mounted
2 on said housing with an operational disposition that is switched to an off position by a heel of said
3 tool when said tool is in said inoperative position.

1 16. The folding knife light of claim 1, with said housing comprising an electrical battery
2 and electrical conductors that electrically connect said battery to said illuminating component via
3 said mode switch and said first electrical switch.

1 17. The folding knife light of claim 1, wherein said mode switch component and said
2 blade switch component comprise a switch assembly borne by one end of the housing component
3 and switched to an off position when said tool is in said inoperative position, said switch assembly
4 being switched on when said tool is in said deployed position, said switch assembly being switched
5 on by manipulation of a user when said tool is in said deployed position, and said switch assembly
6 being switched to an off position with no power supplied to said illuminating component when
7 said tool is moved to said inoperative position.

1 18. The folding knife light of claim 10, with said first electrical switch comprising a
2 conductive plate fixed to said tool, and stud contacts affixed to said handle cooperating with said
3 conductive plate to complete an electrical connection from said illuminating component to said
4 mode switch when said blade is in said deployed position.

1 19. The momentary on switch and mode switch of claim 10, comprised of said
2 momentary on switch and said mode switch incorporated into one switch assembly at a rear end
3 of said housing, wherein said momentary on switch is switched off by said tool moving to said
4 inoperative position, and comprised of another mechanism cooperating with said switch assembly
5 to momentarily switch on said momentary apply electrical power to said illuminating component
6 independent of the position of said tool.

1 20. The folding knife light of claim 19, comprising a non-conductive washer under said
2 conductive plate preventing electrical contact between said illuminating component and said mode
3 switch when said blade is in a closed position.

1 21. A folding knife light of claim 1, wherein said mode switch and said blade switch
2 components further comprise a momentary switch comprising a dimming function and a color
3 switching function for dimming said illuminating component and for switching to another color
4 of illumination.

1 22. A folding knife light comprising:
2 a housing enclosing said knife light tool;
3 a knife light illuminating means for illuminating a blade area;
4 a laser light package emitting laser light pulses;
5 a toggle on switch for momentarily turning on said knife light tool illuminating means;

6 a sonic alarm cooperating with said toggle on switch;
7 a mode switch for selecting a mode of operation of said knife light tool;
8 a power supply package for powering said knife light tool;
9 a switchblade mechanism for rapidly deploying a blade on said folding knife light tool;
10 a pushbutton switchblade switch for initiating said deploying a blade;
11 an RF package cooperating with a MILEs type training system; and
12 an elongated ergonomic handle with a hammer head at a blade end for battle field use.

1 23. A folding knife light, comprising:

2 a housing enclosing said knife light tool;
3 a knife light illuminating means for illuminating a blade area;
4 a momentary on switch for momentarily turning on said knife light tool illuminating means;
5 a mode switch for selecting a mode of operation of said knife light tool;
6 a power supply package for powering said knife light tool;
7 a switchblade mechanism for rapidly deploying a blade on said folding knife light tool;
8 a pushbutton switchblade switch for initiating said deploying a blade;
9 an RF package cooperating with a MILEs type training system; and
10 an elongated ergonomic handle with a hammer head at a blade end for battle field use.

1 24. A folding knife light, comprising:

2 a housing enclosing said knife light tool;

3 a knife light illuminating means for illuminating a blade area;
4 a toggle on switch for momentarily turning on said knife light tool illuminating means;
5 a mode switch for selecting a mode of operation of said knife light tool;
6 a power supply package for powering said knife light tool;
7 a switchblade mechanism for rapidly deploying a blade on said folding knife light tool;
8 a pushbutton switchblade switch for initiating said deploying a blade; and
9 an elongated ergonomic handle with a hammer head at a blade end for battle field use.

1 25. The folding knife light of claim 21, comprising a laser light package, a sonic alarm,
2 and an RF package cooperating with a MILES training system.

1 26. The folding knife light of claim 21, wherein said switch blade mechanism is a push
2 button mechanism.

1 27. A folding knife light comprising:
2 a housing;
3 a quick-release blade mechanism;
4 an on-by blade illuminating component wherein said blade tip area is illuminated when
5 said folding knife light tool is opened;
6 an on feature wherein said illuminating means is turned on under all conditions;
7 an on feature wherein said illuminating means is toggled on momentarily; and

8 an off feature wherein said illuminating means is off under all conditions;
9 wherein said quick release blade mechanism comprises a blade suitable for surgery
10 allowing single handed operation of said folding knife light tool under extreme conditions.

1 28. A folding knife light wherein a power source comprises one of a removable cell, a solar
2 chargeable cell, a solar powered cell, and a rechargeable power.

1 29. A process of manufacturing a folding tool, comprising:
2 installing a tool to rotate about an axle within a housing encasing said tool while said tool
3 is in an inoperative position and providing a handle while said tool is in a deployed position;
4 mounting an illuminating component on said housing to illuminate said tool while said tool
5 is in said deployed position;
6 installing a mode switch component; and
7 electrically connecting a blade switch component to operationally cooperate with said mode
8 switch component, said housing component, and said illuminating component to operate said
9 illuminating component.